

**REMARKS**

This amendment is responsive to the Office Action of March 6, 2008. Reconsideration and allowance of claims 2-8, 11-14 and 16-22 are requested.

**The Office Action**

Claims 2, and 8 stand rejected under 35 U.S.C. §102(b) as being anticipated by Lingren, et al. (EP 1249713).

Claims 3 and 9 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Lingren in view of Orava.

Claims 4-6, and 18-20 stand rejected under 35 U.S.C. §102(b) as being anticipated by Lingren, or in the alternative under 35 U.S.C. §103(a) as being obvious over Lingren.

Claim 7 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Lingren in view of Chu, et al. (US 2004/0080952).

Claims 11, 12, and 21 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Lingren in view of Anderton (U.S. Patent Application No. 2003/0095627).

Claims 13 and 14 stand rejected under 35 U.S.C. §102(b) as being anticipated by Orava, et al. (U.S. Patent No. 5,955,733), or in the alternative, under 35 U.S.C. §103(a) as being obvious over Orava.

Claims 15 and 17 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Orava in view of Lingren.

Claim 16 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Orava in view of Lingren, in further view of Chu.

Claims 2-9, 11, 12, and 21 stand rejected under 35 U.S.C. §112, second paragraph, as being indefinite.

Claim 9 has been objected to as lacking antecedent basis for the term "the conductor pins."

Claim 17 has been objected to as lacking antecedent basis for the term "the collimator."

Claim 19 has been objected to as lacking antecedent basis for the term "detector module."

### **The Finality of the Office Action is Premature**

The Examiner has stated that the new ground of rejection (§103(a) Lingren in view of Anderton) has been necessitated by the Applicant's amendments to the claims, and thus, finality is proper. The Examiner states that the Applicant has amended claim 11 to include a collimator mounting frame. (Office Action, paragraph 16) The Applicant respectfully disagrees.

The scope of claim 11 has not changed. In its previous response, the Applicant cancelled claim 10 and imported the limitations therefrom into claim 11. That is, claim 11 was merely placed in independent form including the subject matter of parent claim 10. Claim 11 set forth the collimator mounting frame in its original form as filed. It is therefore submitted that the finality of the present Office Action is premature. The Applicant respectfully requests that the finality of the Office Action be withdrawn, and the present amendment entered.

Regardless of the disposition of the latest Office Action, the present Amendment C should be entered because it corrects matters of form, reduces issues on appeal by resolving the 35 U.S.C. §112 issues, places the application in condition for allowance, or in the alternative, places the application in better condition for appeal.

### **The §112 Rejections**

With respect to the §112 rejection of claims 1-12 and 21, all instances of the word "socket" have been replaced with the word "platform" per the Examiner's suggestion and assurance that the substitution would not constitute new matter.

With respect to the §112 rejection of claims 13-17, the limitation reciting "a plurality of sets of electric connection pin receiving holes" has been removed from the claims as the Examiner has suggested.

### **The Claim Objections**

With respect to the Examiner's objection to claim 17, it now depends from claim 13, where a collimator is recited.

With respect to the Examiner's objection to claim 19, "detector modules" has been amended to "detector elements," which is recited in claim 18.

### **Replacement Figures**

The Applicant would like to thank the Examiner for the indication of acceptance of the drawings, and acknowledges the request for an annotated sheet. An annotated sheet of FIGURE 1 is included herewith.

### **The Claims Distinguish Patentably Over the References of Record**

**Claim 2** calls for a platform alignment structure that includes rigid pins for aligning the platforms supporting the detector elements with a circuit board that receives the platforms. The Examiner has pointed out that the limitation of rigid pins aligning the detector array with the circuit board was not explicitly claimed, and thus not read into the claim. (Office Action, paragraph 9) Claim 2 has been amended to specifically claim the recited limitation. It is therefore respectfully submitted that **claim 2** is not anticipated by Lingren and it and **claims 3-9** dependent therefrom distinguish patentably and unobviously over the references of record.

**Claim 11** now calls for first and second sets of rigid alignment pins. The combination of Lingren and Anderton fails to show two sets of rigid alignment pins. The first set aligns the platforms to the circuit board, and the second set aligns the collimator to the frame. The first set can best be seen in FIGURE 3, as element **72**, and the second set can best be seen in FIGURE 2, as element **96**. The amendments to claim 11 do not represent new matter, as they are clearly depicted in the drawings. The amendments to claim 11 do not require additional searching, as the first and second set of alignment pins were already set forth in the claims. The first set was previously referred to as the socket alignment pins, (in claim 11) and the second set was previously referred to as the collimator alignment pins (in claim 21). The present amendments to claim 11 clarify the relationship of the claimed structures only. It is therefore respectfully submitted that **claim 11** as well as **claims 12** and **21** dependent therefrom now distinguish patentably and unobviously over the references of record.

The amendments to **claim 13** have been imported from claims 15 and 17, and clarified, and thus do not require additional searching. Claim 13 now calls for

two sets of rigid alignment pins, one that aligns the platforms to the substrate, and a second that aligns the collimator to the frame. The combination of Orava and Lingren fails to show these limitations. It is therefore respectfully submitted that **claim 13** and **claims 14, 16, and 17** dependent therefrom now distinguish patentably and unobviously over the references of record.

The amendments to **claim 16** find support in the original specification at page 5, lines 19-26, and thus do not constitute new matter.

**Claim 18** now calls for rigid pins that align the detector elements on the circuit board. As set forth above in the discussion of claim 2, Lingren does not show rigid pins to align the detector elements to the circuit board. It is therefore respectfully submitted that **claim 18** now defines patentably and unobviously over the reference of record.

New **claim 22** has been added anticipating that the Examiner will be persuaded to withdraw the finality of the present Office Action. Claim 22 contains only limitations that were included in the claims prior to the present Amendment, and thus, should not require any additional searching.

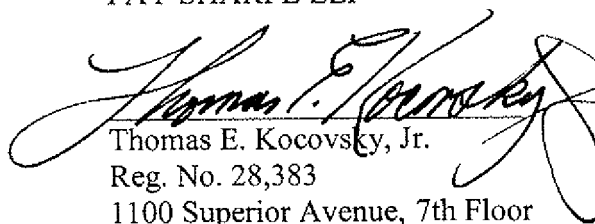
**CONCLUSION**

For the reasons set forth above, it is submitted that claims 2-8, 11-14, and 16-22 distinguish patentably over the references of record and meet all statutory requirements. An early allowance of all claims is requested.

In the event the Examiner considers personal contact advantageous to the disposition of this case, she is requested to telephone Thomas Kocovsky at (216) 861-5582. Although the Examiner initially declined to grant the Applicant an opportunity to discuss the application, the Applicant would appreciate such an opportunity.

Respectfully submitted,

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A handwritten signature in black ink, appearing to read "Thomas E. Kocovsky, Jr.", is written over a horizontal line.

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